

Irmgard Merfort

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ChemBioNet-contribution: collaborations in providing natural products from plants and cell-based assays on antiinflammatory and antitumoral activities

Research interest: Natural plant derived compounds with antiinflammatory and antitumoral activity; QSAR studies

We study traditional medicinal plants with antiinflammatory and antitumoral activities. We elucidate the effective compounds and the mode of action on the molecular level. A special focus is the transcription factor NF- κ B. In an interdisciplinary approach we combine biological studies with molecular docking experiments and QSAR studies to find leads for drug development

Expertise: phytochemistry; cell-based assays on NF- κ B, cytotoxicity, apoptosis, elastase and woundhealing

Equipment: equipment for phytochemistry and biological assays

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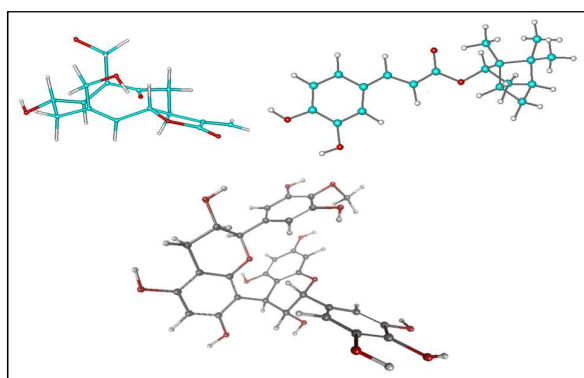


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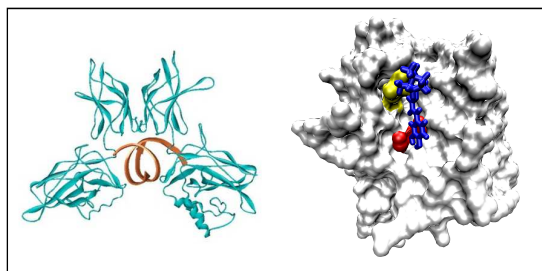
Natural plant derived compounds with antiinflammatory and antitumoral activity; QSAR studies



Arnica montana



Natural products with antiinflammatory activity



NF- κ B and elastase as molecular targets



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